



# Feasibility Study for Improved Mobile Source Emission Inventories

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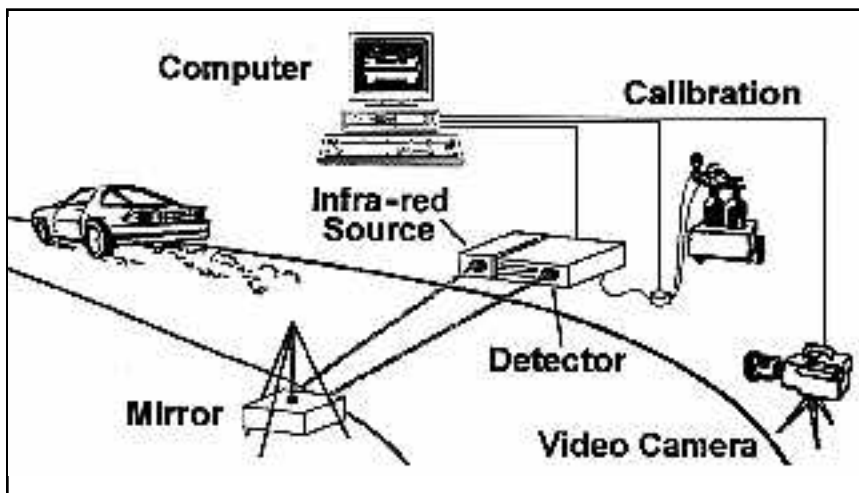
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## Objective

To develop an approach for improving the existing mobile source emission inventories by using information from remote sensing and other real-world mobile source emissions measurements.

## Approach

Remote sensing data and related information (idle tests, IM240 results, vehicle specifications) from all over the United States has been solicited from research organizations and instrument manufacturers. Documented and standardized versions of the data sets have been included in the



*A remote sensing device*

Standardized Archive for Vehicle Emissions Database (SAVED). The finished database will be available via the Internet initially to project participants. Species ratios for HC/CO<sub>2</sub>, CO/CO<sub>2</sub>, and when possible, NO/CO<sub>2</sub> have been calculated and appended to the database. Data analyses designed to validate and compare the data will be performed and reported. Analyses will include comparison of multiple remote sensors at the same site, fleet descriptions, age distributions of full and gross polluter fleets, and comparisons with other emission sensing methods and model results.

## Accomplishments

Database and related documentation are ready for release. Data documentation and the type and quantity of related data sets did not meet expectations because of the data acquisition method (voluntary, unfunded contributions). Data included in SAVED reflect the experimental nature of the remote sensing instrumentation and research to date. Analyses will be ready for publication in early 1997.

## Future Direction

SAVED will provide a computer-compatible central resource for early remote sensing data. Researchers will be able to identify and review data from early studies.

## Publications

No refereed journal articles to date.

